

UNITED STATE PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re applic	ation of:)	
	Baker)	
Serial No.:	09/061,017)	Art Unit: 2732
	,)	Examiner: D. Vincent
Filed:	April 15, 1998)	RECEIVED
	ETHOD AND APPARATUS OF)	AUG 2 7 2001
IN	TERLEAVING A DATA STREAM)	Technology Center 2600

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

REPLY BRIEF IN SUPPORT OF APPELLANT'S APPEAL TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

Dear Sir:

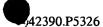
Pursuant to 37 C.F.R. §193(b)(1), Appellant hereby replies to the Examiner's Answer dated June 14, 2001.

Claims 1-19 are the subject of this appeal. The Examiner has maintained the rejections of claims 1-19. Claims 1-3, .6-9, and 11-19 stand rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,291,485 by Afify et al. (hereinafter, "Afify"). Claims 4, 5, and 10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Afify in view of U.S. Patent 5,825,772 by Dobbins el al. (hereinafter, "Dobbins").

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All arguments in Appellant's previously filed Appeal Brief, Reply Brief and Supplemental Appeal Brief are herein incorporated into this Reply Brief to the Examiner's Answer.

It is noted that while in many respects the issues in this case are relatively simple, the case has been made more complex and confusing by irregularities that have occurred previously. In particular, the Examiner filed a reply to Appellant's previous reply brief, which was and is not proper. Furthermore, the Examiner attempted to improperly rely on official notice when, during prosecution, Appellant correctly and properly traversed the Examiner's position regarding the meaning of "burst." Therefore, to address these procedural irregularities by the Examiner, prosecution on the merits was reopened.

Rather than focus on these procedural issues, however, Appellant wishes to focus the Board on the merits of the case, because the merits are relatively straight-forward.

As indicated above, the Examiner has rejected claims 1-3, 6-9, and 11-19 under 35 USC 103(a) on Afify alone. However, the Examiner has conceded that aspects of claims 1, 12, and 18 are not contained within Afify. Hence, the Examiner posed the rejection based on 103(a) rather then 102. (See Examiner's Answer, page 5). In addition to the Examiner's own concession that claim 1, as one example, does not address groupings, there are several other aspects of claim 1, again, for example, that Afify fails to provide.



In particular, despite the Examiner's assertions to the contrary (see Examiner's Answer, page 10), Afify does not teach "applying at least one grouping to the second MUX between applying groupings from the first MUX to the second MUX." Without rehashing all of the arguments previously made in prior prosecution, this is clear at least because Afify is not related to interleaving a data stream as claimed and described. Afify makes it clear that it is related to reformatting of data, not interleaving, as recited in the claims.

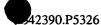
Although the claimed subject matter is not necessarily limited to the embodiments described, reference to the specification in this case is helpful to at least highlight that Afify is not related to interleaving, while the claimed subject matter is. For example, the present application states on page 4, lines 25-24, to page 5, line 1:

"[T]his particular embodiment of a circuit for interleaving a data stream <u>includes the</u> capability to interleave a grouping or groupings of binary digital signals. ...

In this particular embodiment, MUX 130 receives input signals from an alternative data source. This data source or data stream is to be interleaved with the data stream written to FIFO 110, as previously described."(emphasis supplied)

It is noted that this language from the specification is consistent with the language of the claim cited above.

In contrast, at column 2, lines 58-60, Afify states:



"An object of the present invention is to translate virtual words in one format to virtual words in another format."

This is just one example of language from Afify that makes it clear that it is limited to reformatting data.

The Examiner views multiplexing and interleaving as the same thing (see

Examiner's Answer, pages 9,10); however, that is clearly not the case. Appellant agrees
that a form of multiplexing is employed in Afify. Furthermore, multiplexing is also a
technique for implementing the claimed subject matter in this embodiment. In contrast,
however, interleaving is a result that may come from applying multiplexing, as is clear from
the specification of the above-referenced patent application. Therefore, it is improper to
treat multiplexing and interleaving as one and the same thing. While it may be true that
Afify employs multiplexing, it is not true that Afify performs or even relates to interleaving.

Likewise, as another example of an aspect of the claim not shown or taught in Afify, claim 1 states: "applying selected groupings read from the memory to a first multiplexer (MUX)." The Examiner, in his Answer (page 4), refers to reformatter 104 of figure 9 of Afify as the first MUX. This may be questionable in and of itself because a reformatter is not necessarily a MUX; however, irrespective of that question or issue, from the description in the patent, it is clear that 104 does not apply "selected groupings" as called for by the claims. The patent describes the operation of reformatter 104 in some detail and illustrates its internal circuitry in

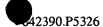


figure 12. Again, as just one example supporting Appellant's position, at column 10, lines 59-61, Afify states:

"The outputs of the upper and lower transmit switch memories 100, 102 are provided to both the reformatter A104 and overhead mux 126."

The Examiner even admits this in his Answer on page 6. In particular, the Examiner states:

"[T]he data read from memories 100 and 102 (afify Fig. 9) is read continuously [citing to Afify]...".

Therefore, it is clear that "selected groupings" are not "read from the memory", as called for in the claims. Instead, all the contents of the memorie(s) are provided.

Thus, there are many aspects of claim 1 that are not taught or described in Afify.

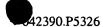
However, the law is clear that when making a rejection under section 103 of the statute,
any modifications to cited patents or other documents to be made in order to meet the
claim limitations must come from the prior art. See In re Gorman, 221 USPQ 1125 (Fed.

Cir. 1985) (prior art must suggest the desirability of making the modification to produce the
claimed invention) Here, the Examiner has failed to supply any other patent or document
to provide the missing aspects of the rejected claims. Therefore, the Examiner has failed to
meet his burden.

Of course, there are additional problems with the Examiner's rejection beyond the foregoing. For example, as explained in Appellant's brief, pages 7-9, Afify is non-analogous art. The Examiner, in his Answer, page 9, relies on the class and subclass of the patent to dispute this; however, that is insufficient. The Examiner must apply the Federal Circuit test, and, as Appellant has already shown in his Appeal Brief, under the applicable test Afify is not analogous. The Examiner's position on page 9 and 11 of his Answer amounts to asserting that any and all forms of multiplexing, regardless of data type, application, implementation, etc., etc. are analogous. This proves too much and, therefore, cannot be the case.

Likewise, the Examiner attempts to "shoehorn" Afify into the limitations of the rejected claims, in addition to the patent being non-analogous. This suggests that the Examiner has, in reality, engaged in hindsight reconstruction, a practice that has been continually and repeatedly condemned by the Federal Circuit. The Examiner responds, on page 12 of his Answer, citing In re McLaughlin, that he is not running a foul of this fundamental prohibition if he does not employ knowledge gleaned only from the applicant's disclosure. While that is a correct statement of the law, given that Afify is missing several aspects of claim 1 and is non-analogous, as previously discussed, it seems irrefutable that the Examiner has, in fact, gleaned information from Appellant's disclosure, rather than from the prior art.

The Examiner, in his Answer, also makes much of the terms "FIFO" and "burst," which are employed in the dependent claims. However, because Afify does not render claim 1 obvious for the reasons previously explained, likewise, it cannot render the other dependent claims rejected only on Afify obvious, such as claims 2, 7, and 8, for example. Nonetheless, Appellant



still does not concede the Examiner's positions regarding "FIFO" and "burst." With respect to the term "FIFO," although Appellant agrees that FIFOs are well-known, (Examiner's Answer, page 6), Appellant does not agree that it is obvious how to use a FIFO to implement the invention as recited in claim 1, for example.

Likewise, regarding the term "burst," the Appellant, during prosecution, traversed the taking of official notice by the Examiner and continues to disagree with the Examiner's position. The Examiner, in his Answer, page 13, argues that this is now mooted by pages from a textbook supplied by Appellant. However, the Examiner is not correct. As is well-established, the patent claims and specification control over an external source, such as a textbook. See, e.g., Dow Chemical Co. v. Sumitomo Chemical Co., 00-1441, Fed. Cir., decided July 25, 2001 ("[A]ny definition found in or ascertained by a reading of the intrinsic evidence may not be contradicted by any meaning found in dictionaries or technical treatises."); Vitronics v. Conceptronic, 39 USPQ2d 1573, 1578 n. 6. The term "burst" is employed on page 5 of the above-referenced patent application. It is clear from the usage in the specification that this term is not intended to have the meaning that the Examiner is attempting to impart, but, instead, has a much broader meaning. The specification specifically discusses burst DRAM. Therefore, reference to a textbook regarding ATM networking to interpret this term, as the Examiner has done, does not appear to be appropriate or logical.

Finally, Appellant addresses the Examiner's arguments regarding claims 4, 5 and 10. The Examiner has asserted that these claims are unpatentable under section 103 of the statute based upon the combination of Afify in light of Dobbins. Because these claims depend from



claim 1, for the Examiner to make a prima facie case of unpatentability. Dobbins must address the deficiencies of Afify with respect to claim 1. However, Dobbins fails in this regard. The Examiner relies on Dobbins only because, according to the Examiner, it teaches VLAN tags. Thus, a review of Dobbins reveals that it has no teaching, description, or even suggestion to cure the missing aspects of claim 1 that are not disclosed by Afify. Therefore, the combination, even assuming it were correct, would fail to produce the invention as recited in the rejected claims.

Furthermore, the combination is not proper in any event. In particular, Afify and

Dobbins are incompatible technology. Therefore, one of ordinary skill in the art would not

even attempt to make the asserted combination. For example, SONETs, as described in

Afify are a point-to-point protocol. In contrast, Dobbins deals with a packet switched

network in which the protocol is distributed. Under these circumstances, such a combination is not proper technically or legally.

CONCLUSION

Appellant respectfully submits that all the pending claims in this patent application are patentable and request that the Board of Patent Appeals and Interferences overrule the Examiner and direct allowance of all the rejected claims.

Respectfully submitted,

Date: 8/13/01

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Firm or Individual name	Gregory D. Caldwell, Reg. No. 39,926 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP				
Signature	III aldudi				
Date	August 14, 2001				

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